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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,773	10/09/2006	Yoshiro Okawa	09792909-6839	4253
	7590 06/12/200 EIN NATH & ROSEN	EXAMINER		
P.O. BOX 0610		WONG, TINA MEI SENG		
WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606-1080			ART UNIT	PAPER NUMBER
			2874	
		MAIL DATE	DELIVERY MODE	
		06/12/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		A	pplication No.	Applicant(s)	Applicant(s)			
		1	0/599,773	OKAWA ET AL.	OKAWA ET AL.			
		E	xaminer	Art Unit				
			NA M. WONG	2874				
Period fo	The MAILING DATE of this commui r Reply	nication appear	s on the cover sheet	with the correspondence a	ddress			
WHIC - Exter after - If NO - Failui Any r	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE IN sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come period for reply is specified above, the maximum see to reply within the set or extended period for reply eply received by the Office later than three months department adjustment. See 37 CFR 1.704(b).	MAILING DATE s of 37 CFR 1.136(a) munication. tatutory period will ap y will, by statute, cau	E OF THIS COMMUN In no event, however, may oply and will expire SIX (6) Mose the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	·			
Status								
1) 又	Responsive to communication(s) file	ed on 26 May	2009					
· · · · · · · · · · · · · · · · · · ·			tion is non-final.					
′=		<i>′</i> —		atters prosecution as to th	ne merits is			
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4) 🖂	Claim(s) 1-4 is/are pending in the a	pplication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
·	Claim(s) <u>1-4</u> is/are rejected.							
	Claim(s) is/are objected to.							
•	Claim(s) are subject to restri	ction and/or ele	ection requirement.					
Applicati	on Papers							
91□.	The specification is objected to by the	ne Examiner						
	The drawing(s) filed on <u>09 October 2</u>		⊠ accepted or b)□	objected to by the Exami	ner			
. 4/23	Applicant may not request that any obje							
					CFR 1 121(d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
Attachmen (1)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (4) ☐ Interviev Paper N	w Summary (PTO-413) o(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:								

DETAILED ACTION

Continued Examination under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 26 May 2009 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application Publication 2002/0145695 to Kim et al.

In regards to claims 1-3, Kim et al teaches a liquid crystal display apparatus (Figures 1A-1D) characterized in that:

display pixels (90) are located where one of a plurality of vertical signal lines (70) and one of a plurality of horizontal signal lines (20) intersect ([0040])

a shield wire (30-34) on each side of the vertical signal lines and horizontal signal lines, wherein each of the potential of the shield wires is set at a value equal to or nearly equal to a potential of a common electrode ([0040]).

Art Unit: 2874

But Kim et al fails to explicitly teach the equal potential of the shield wire and common electrode equate to a normally black mode. However, Kim et al does teach the shield wires to control the liquid crystal molecules. Furthermore, Kim et al teaches the shield wire and the common electrode to initially maintain equal potentials in the off state. Therefore, although not explicitly stated, it can be reasonably inferred in the Kim et al reference for one of ordinary skill in the art to have the potentials of the shield wire and the common electrode to be nearly equal in the black mode.

Kim et al also fails to explicitly teach the potential value to be set so that when a defect occurs, it is not recognized by the human eye. However, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to have set the parameters of the potential to have prevented a recognizable defect by the human eye, since viewing a defect on the screen of a liquid crystal display is undesirable. It could block vital information intended to display on the screen and appear overall un-uniform and unsightly.

In regards to claim 4, although Kim et al does not explicitly state for the potential of the shield wire to be set at a maximum value, a minimum value or a value approximate thereto of a voltage to be applied to the display pixel in a normally white mode, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to have set the potential so that the potential is on the maximum or minimum value range in order to allow the greatest amount of light to transmit for a better image quality. Furthermore, Applicant claims three different values for the potential of the shield wire to be set to. It appears that all three values would allow the device to function reasonably well. Applicant does not claim any of the

three values performs a specific task or is for any particular purpose and therefore, it does not appear that the three values are critical values as related to the apparatus.

Response to Arguments

Applicant's arguments filed 19 May 2009 have been fully considered but they are not persuasive. Applicant argues Kim et al teaches the shield wire and common electrode to maintain equal potentials in the off state only. However, the Examiner cannot locate this teaching in the Kim et al reference. Kim et al discusses the potentials in paragraph [0040] and [0041]. Neither paragraph discusses maintaining equal potentials in a specific state.

Furthermore, Applicant does not specifically require the display to be in the on state in the claim language.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TINA M. WONG whose telephone number is (571)272-2352. The examiner can normally be reached on Monday-Friday 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Uyen-Chau Le can be reached on (571) 272-2397. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tina M Wong/ Primary Examiner, Art Unit 2874